

The present invention is related to a recombinant cell expressing a nucleotide sequence encoding a G protein coupled receptor having an amino acid sequence which presents more than 70% sequence identity with SEQ ID.NO.1 as well as to a drug screening method and kit using the orphan G protein coupled receptor GPR86, identified hereafter as receptor for ADP (P2Y₁₃) and a homologous sequence, the corresponding polynucleotide and said recombinant cell to identify agonist, inverse agonist and antagonist compounds applicable to a diagnostic, prevention and/or treatment of various diseases and disorders.